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**A Type Catalog of Fossil Invertebrates  
(Arthropoda: Crustacea) in the Yale  
Peabody Museum**

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*(Received 8 May 1996)*

**Abstract**

Type material for 83 nominal species of fossil crustaceans are in the Invertebrate Paleontology Collections of Yale University's Peabody Museum of Natural History. Primary types for 41 nominal species include 21 holotypes, 4 lectotypes and 76 syntypes (representing 15 nominal species). Secondary types for 17 nominal species include 29 paratypes and 3 paralectotypes. Tertiary types of 47 nominal species include 200 hypotypes. Most types are from Mazon Creek (Illinois) and New York State, and have been described by C.E. Beecher, J.M. Berdan, H.K. Brooks, James Hall, M.J. Rathbun, H.B. Roberts, P.E. Raymond, C.E. Resser and E.O. Ulrich.

**Key Words**

Type Catalog, Crustacea, Yale Peabody Museum, Mazon Creek, New York State, C.E. Beecher, J.M. Berdan, H.K. Brooks, James Hall, M.J. Rathbun, P.E. Raymond, C.E. Resser, H.B. Roberts, E.O. Ulrich.

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**Introduction**

This catalog lists all known fossil crustacean types in the Invertebrate Paleontology Collections housed in Yale University's Peabody Museum of Natural History. This is the second in a series of type catalogs of fossil invertebrates and is a product of an ongoing computerization project to improve the accessibility of the type collections.

Eleven type specimens are missing and cannot be located. The collections have been thoroughly searched by the curatorial staff in the 1960s and 1980s and it is believed that these specimens are permanently lost. The missing status of each specimen is footnoted after each record, respectively. Any information on the whereabouts of these specimens would be greatly appreciated.

**Organization**

Specimens are listed under the originally described binomen; genera and species within genera are indexed alphabetically. Each entry includes the catalog number used by the Division of Invertebrate Paleontology prefixed with the abbreviation YPM and the type status of the original designation, followed by all known references to that name. Any subsequent designations are listed under the original designation and are cross-referenced in the body of the text. Locality descriptions follow each entry or set of entries for each binomen. Errors and inconsistencies are footnoted at the bottom of each binomen.

The type designations used are holotype, syntype, and lectotype for name bearers; paratype and paralectotype for secondary types; hypotype is used for all tertiary types. Name bearers and secondary types are defined as used in the *International Code of Zoological Nomenclature* (1985). Tertiary types or hypotypes are treated here as any described, figured or measured specimen used in a publication to augment the knowledge of a previously defined species, or any referred specimen that can not be placed unequivocally in a known species (e.g. *Berounella* sp.).

Locality descriptions follow each entry or set of entries with identical locality data. The locality information includes the stratigraphy, geography, collector and date. Stratigraphy has been standardized using *Stratigraphic Nomenclature Databases for the United States, its Possessions and Territories* (MacLachlan et al., 1992).

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## Catalog of Crustacea

### ***Acanthoscapha navicula* (Ulrich)**

HYPOTYPE YPM 20844

Berdan, J.M. 1960. *J. Paleont.* v.34,n.3, p.472,pl.66,f.16.

Early Devonian, Helderberg Grp. Lower Helderberg, Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

see *Beecherella navicula* Ulrich

### ***Acanthoscapha navicula?* (Ulrich)**

see *Beecherella carinata* Ulrich

### ***Acanthotelson stimpsoni* Meek and Worthen**

HYPOTYPE YPM 9665

Meek, F.B. and A.H. Worthen. 1866. *Ill. Geol. Surv.* v.2,sec.2,p.401,pl.32,f.6a.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Shale Mbr. Near the base of the coal measures, on the S side of the Illinois River at Morris, Grundy Co., Illinois, USA. Collector: Bronson, J.G.

HYPOTYPE YPM 19640

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.55,f.2.

HYPOTYPE YPM 19644, 19692, 19711, 19713, 19725, 19744, 19813, 19834, 19849, 19866, 19875, 19877, 19878, 19903, 19904, 19906

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230.

HYPOTYPE YPM 19653

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.59,f.2.

HYPOTYPE YPM 19707

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.58,f.3,pl.59,f.5.

HYPOTYPE YPM 19817

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.59,f.4.

HYPOTYPE YPM 19834

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230.

HYPOTYPE YPM 19835

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,tp.11a.

HYPOTYPE YPM 19839

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.57,f.1,2.

HYPOTYPE YPM 19842

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.56,f.1,2.

HYPOTYPE YPM 19844

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.54,f.1.

HYPOTYPE YPM 19846

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.59,f.1.

HYPOTYPE YPM 19847

Brooks, H.K. 1962. *Bull. Am. Paleont.* v.44, n.202,p.230,pl.59,f.3.

HYPOTYPE YPM 19854

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.230,pl.59,f.1.

HYPOTYPE YPM 19867

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.230,pl.54,f.3,pl.59,f.6.

HYPOTYPE YPM 19884

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.230,pl.59,f.9.

HYPOTYPE YPM 19902

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.230,pl.57,f.3.

Middle Pennsylvanian, Desmoinesian,  
Carbondale Fm, Francis Creek Shale Mbr.  
Mazon Creek, Grundy Co., Illinois, USA.  
Collector: Strong, S.S.

***Adelocaris peruviensis* Packard**

HOLOTYPE? YPM 35436

Packard, A.S. 1889. Proc. Boston Soc. Nat. Hist. p.209,pl.3,f.1.†

Mesozoic, Peru.†

†Although YPM 34536 is not mentioned specifically in the text, this copper replica was received from A.S. Packard and is marked as "type" in what appears to be Packard's handwriting. The locality data for this specimen, Mesozoic, Peru, can only be ascertained from the publication. No locality information is present with the replica.

***Anthracaris gracilis* Meek and Worthen**

HYPOTYPE YPM 19979

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.39,f.2.

Schram, F.R. 1974. Fieldiana: Geol. v.30, n.2,p.26.

HYPOTYPE YPM 19989

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.35,f.1.

Schram, F.R. 1974. Fieldiana: Geol. v.30, n.2,p.41,tf.30.

HYPOTYPE YPM 20022

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173.

Schram, F.R. 1974. Fieldiana: Geol. v.30, n.2,p.26,tf.16.

HYPOTYPE YPM 19694, 19930, 19937, 19939, 19944, 19945, 19948, 19990, 19992, 20000, 20001, 20013

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173.

HYPOTYPE YPM 19928

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.35,f.3,pl.40,f.2.

HYPOTYPE YPM 19929

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.43,f.1.

HYPOTYPE YPM 19931

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,tp.3c,pl.39,f.3,pl.40,f.1.

HYPOTYPE YPM 19932

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.31,f.1,2.

HYPOTYPE YPM 19936

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.37,f.1,pl.42,f.2.

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173.

HYPOTYPE YPM 19941

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.33,f.2.

HYPOTYPE YPM 19947

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.40,f.3.

HYPOTYPE YPM 19953

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.38,f.2,3.

HYPOTYPE YPM 19956

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173.†

HYPOTYPE YPM 19960

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.41,f.2.

HYPOTYPE YPM 19971

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.36,f.2.

HYPOTYPE YPM 19975

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.32,f.2.

HYPOTYPE YPM 19983

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.35,f.2.

HYPOTYPE YPM 19987

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.37,f.2.

HYPOTYPE YPM 19988

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.29,f.1,2,pl.33,f.1,pl.43,f.2.

HYPOTYPE YPM 19993

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.34,f.1.

HYPOTYPE YPM 19996

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.36,f.1.

HYPOTYPE YPM 19998

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.35,f.4.

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173.

HYPOTYPE YPM 20003

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.32,f.1.

HYPOTYPE YPM 20005

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.173,pl.34,f.2.

Middle Pennsylvanian, Desmoinesian,  
Carbondale Fm, Francis Creek Shale Mbr.  
Mazon Creek, Grundy Co., Illinois, USA.  
Collector: Strong, S.S.

† YPM 19956 was incorrectly referred to as "PY 18956" on page 182.

### ***Anthracophausia strongi* Brooks**

HOLOTYPE YPM 18821

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.203,pl.48,f.1,2.

=*Peachella strongi* (Brooks). Schram, F.R. 1974. Fieldiana: Geol. v.30,n.2,p.41,tf.30.

PARATYPE YPM 18884

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.203,pl.48,f.3.

=*Peachella strongi* (Brooks). Schram, F.R. 1974. Fieldiana: Geol. v.30,n.2,p.41.

Middle Pennsylvanian, Desmoinesian,  
Carbondale Fm, Francis Creek Shale Mbr.  
Mazon Creek, Grundy Co., Illinois, USA.  
Collector: Strong, S.S.

### ***Astacus chenoderma* Cope**

HYPOTYPE YPM 26884

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.34,f.3.†

HYPOTYPE YPM 26885

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.33,f.3.†

HYPOTYPE YPM 26886

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.33,f.2.†

HYPOTYPE YPM 26887

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.33,f.1.†

HYPOTYPE YPM 26888

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.32,f.2.†

HYPOTYPE YPM 26889

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.31,f.5.†

HYPOTYPE YPM 26890

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.31,f.4.†

HYPOTYPE YPM 26891

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.31,f.3.†

HYPOTYPE YPM 26892

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.31,f.1.†

HYPOTYPE YPM 26893

Rathbun, M.J. 1926. Bull. U.S. Nat. Mus. n.138,p.130,pl.29,f.7.†

Pliocene. Near Eldorado, Malheur Co., Oregon, USA. Collector: McDowell, C.W.

†A series of private numbers was assigned to these specimens. They are 10 (YPM 26884), 1 (YPM 26885), 9 (YPM 26886), 2 (YPM 26887), 4 (YPM 26888), 6 (YPM 26889), 8 (YPM 26890), 7 (YPM 26891), 3 (YPM 26892) and 5 (YPM 26893),

***Beecherella angularis* Ulrich**

HOLOTYPE YPM 20397

Ulrich, E.O. 1891. Am. Geol. v.8,n.4,p.474, pl.66,f.14,15.

Berdan, J.M. 1960. J. Paleont. v.34,n.3, p.474,pl.66,f.14,15.

HYPOTYPE YPM 20843

Berdan, J.M. 1960. J. Paleont. v.34,n.3, p.474,pl.66,f.11-13.

Early Devonian, Helderberg Grp, Kalkberg Limestone. Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

***Beecherella carinata* Ulrich**

SYNTYPE YPM 20392

Ulrich, E.O. 1891. Am. Geol. v.8,n.4, p.199,pl.2,f.1-3.

Lectotype. Berdan, J.M. 1960. J. Paleont. v.34,n.3,p.470,pl.66,f.19-21.†

SYNTYPE YPM 20393

Ulrich, E.O. 1891. Am. Geol. v.8,n.4, p.199,pl.2,f.4.

=*Acanthoscapha navicula*? (Ulrich).

Hypotype. Berdan, J.M. 1960. J. Paleont. v.34,n.3,p.470.

HYPOTYPE YPM 20845

Berdan, J.M. 1960. J. Paleont. v.34,n.3, p.471,pl.66,f.22.

HYPOTYPE YPM 26781, 26782, 26783, 26784, 26785, 26786, 26787, 26788, 30392††, 30395††

Berdan, J.M. 1960. J. Paleont. v.34, n.3,p.470.

Early Devonian, Helderberg Grp, Kalkberg Limestone. Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

†YPM 20392 is cited in the explanation for pl.66,f.19-21 as the holotype, but designated as the lectotype on p.470.

†† A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

***Beecherella cristata* Ulrich**

HYPOTYPE YPM 20840

Berdan, J.M. 1960. J. Paleont. v.34,n.3, p.475,pl.66,f.1,2.

Early Devonian, Helderberg Grp, Kalkberg Limestone. Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

***Beecherella navicula* Ulrich**

SYNTYPE YPM 20390

Ulrich, E.O. 1891. Am. Geol. v.8,n.4, p.203,pl.2,f.8.

=*Acanthoscapha navicula* (Ulrich).

Lectotype. Berdan, J.M. 1960. J. Paleont. v.34,n.3,p.472,pl.66,f.16,18.

SYNTYPE YPM 20391

Ulrich, E.O. 1891. Am. Geol. v.8,n.4, p.203,pl.2,f.9.

=*Acanthoscapha navicula* (Ulrich).

Paralectotype. Berdan, J.M. 1960. J. Paleont. v.34,n.3,p.472.

Early Devonian, Helderberg Grp, Kalkberg Limestone. Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

***Beecherella ovata* Ulrich**

HOLOTYPE YPM 20394

Ulrich, E.O. 1891. Am. Geol. v.8,n.4,p.202, pl.2,f.13,14.

Berdan, J.M. 1960. J. Paleont. v.34,n.3, p.477,pl.66,f.6.

Early Devonian, Helderberg Grp, Kalkberg Limestone. Indian Ladder, Thatcher State Park, Albany Co., New York, USA. Collector: Beecher, C.E.

***Beecherella subtumida* Ulrich**

SYNTYPE YPM 20395

Ulrich, E.O. 1891. *Am. Geol.* v.8,n.4,p.200,  
pl.2,f.5-7.

=*Janusella subtumida* (Ulrich). Lectotype.  
Berdan, J.M. 1960. *J. Paleont.* v.34,n.3,  
p.473,pl.66,f.8.

SYNTYPE YPM 20396

Ulrich, E.O. 1891. *Am. Geol.* v.8,n.4,p.200,  
pl.2,f.6,7.

=*Janusella subtumida* (Ulrich).  
Paralectotype. Berdan, J.M. 1960. *J.*  
*Paleont.* v.34,n.3,p.473.

Early Devonian, Helderberg Grp, Kalkberg Lime-  
stone. Indian Ladder, Thatcher State Park, Albany  
Co., New York, USA. Collector: Beecher, C.E.

***Berounella* sp.**

HYPOTYPE YPM 20846

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.7-9.

HYPOTYPE YPM 20847

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.10.

HYPOTYPE YPM 20848

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.11.

HYPOTYPE YPM 20849

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.12.

HYPOTYPE YPM 20850

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.13.

HYPOTYPE YPM 20851

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.14.

HYPOTYPE YPM 20852

Sohn, I.G. and J.M. Berdan. 1960. *J.*  
*Paleont.* v.34,n.3,p.480,pl.67,f.15.

Early Devonian, Helderberg Grp, Kalkberg Lime-  
stone. Indian Ladder, Thatcher State Park, Albany  
Co., New York, USA. Collector: Beecher, C.E.

***Branchioplax washingtoniana* Rathbun**

HOLOTYPE YPM 195

Rathbun, M.J. 1916. *Am. J. Sci.* ser.4,v.41,  
n.24,p.345,ff.(p.345).

Rathbun, M.J. 1926. *Bull. U.S. Nat. Mus.*  
n.138,p.42.

Tertiary. Port Townsend, Kitsap Co., Washington,  
USA.

***Callianassa* sp.**

HYPOTYPE YPM 35098

Waage, K.M. 1968. *Bull. Peabody Mus. Nat.*  
*Hist.*(Yale Univ.) n.27,pl.8,f.c.

Late Cretaceous, Maastrichtian, Fox Hills Fm,  
Timber Lake Mbr, *Tancredia-Ophiomorpha*  
Biofacies. Lower 6 ft of unit 1, just below Hell  
Creek contact, draw NW of small banded-bed  
butte, badlands in NW-facing bluff, 0.5 mi S of  
Hump Creek and 1.2 mi E of SD Rt. 65, and 2.4  
mi NE of Black Horse, Black Horse NE Quad., N  
NW SE Sec31T21N R23E, Corson Co., South  
Dakota, USA. Collector: Waage, K.M. and  
Speden, I.G., between 1959 and 1962.

***Camarella? longirostris* Billings**

HYPOTYPE YPM 15299

Twenhofel, W.H. and M.S. Whiting. 1938.  
*Spec. Pap. Geol. Soc. Am.* n.11,p.53.

Ordovician, Mingan Fm. 25 ft above base of  
Mingan Fm, Quarry Island, Mingan Islands,  
Quebec, Canada. Collector: Twenhofel, W.H.

***Ceratiocaris acuminata* (Hall)**

HYPOTYPE YPM 22405

Rolfe, W.D.I. 1962b. *J. Paleont.* v.36,  
n.5,p.917.

Late Silurian, Salina Grp, Bertie Fm, Williamsville  
Dolostone Mbr. Buffalo, Erie Co., New York, USA.

***Ctenobolbina ciliata parva* Kirk**

SYNTYPE YPM 26821

Kirk, S.R. 1928. *Am. J. Sci.* ser.5,v.16,  
n.95,p.418,f.3a-3c.

SYNTYPE YPM 42105.†

Kirk, S.R. 1928. *Am. J. Sci.* ser.5,v.16,  
n.95,p.418.

Middle Ordovician, Trenton Limestone. Near "Reservoir Hill", Davidson Co., Tennessee, USA. Collector: Schuchert, C.

†A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

***Cytherellina crepiduloides* Berdan**

PARATYPE YPM 23832

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39,pl.6,f.19.

PARATYPE YPM 23833

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39,pl.6,f.20.

PARATYPE YPM 23834

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39,pl.6,f.22.

PARATYPE YPM 23835

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39,tf.8,pl.6,f.23.

PARATYPE YPM 23836

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39,pl.6,f.24.

Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie County, New York, USA. Collector: Logie, R.M., 09/07/1932.

***Cyzicus cf. princetonensis* (Bock)**

HYPOTYPE YPM 16835

Olsen, P.E., C.L. Remington, Bruce Cornet and K.S. Thompson. 1978. Science. v.201,p.730,f4C.

Late Triassic, Dan River Grp, Cow Branch Fm. Insect layer, unit b, cycle CB1-2, quarry CB1-2-D, 1000 ft above base of upper member of Cow Branch, main quarry of Solite Corporation, 0.5 mi N of Fitzgerald, and 0.5 mi WSW of Leaksville Junction, VA, Rockingham Co., North Carolina, USA. Collector: Olsen, P.E. and Broumbaugh, Robert, 06/1975.

***Cyzicus* sp.**

HYPOTYPE YPM 34616

Olsen, P.E. 1977. Carolina Geol. Soc.: Raleigh. 40th Ann. Meeting, f.18H.

Late Triassic, Chatham Grp. 3.5-ft-thick lacustrine beds, 47.5 ft above base of section in main quarry of Triangle Brick Company, W side of State Route 1630, Genlee, Durham Co., North Carolina, USA. Collector: Olsen, P.E. and Litt, Amy, 03/23/1977.

***Darwinula* sp.**

HYPOTYPE YPM 34667

Olsen, P.E. 1977. Carolina Geol. Soc.: Raleigh. 40th Ann. Meeting, f.18G.

Late Triassic, Chatham Grp. 3.5-ft-thick lacustrine beds, 47.5 ft above base of section in main quarry of Triangle Brick Company, W side of State Route 1630, Genlee, Durham Co., North Carolina, USA. Collector: Olsen, P.E. and Litt, Amy, 03/23/1977.

***Dibolbina reticruminata* Berdan**

HOLOTYPE YPM 23826

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.23,pl.4,f.28.

PARATYPE YPM 23825

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.23,pl.4,f.27.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

***Dizygopleura halli* (Jones)**

HYPOTYPE YPM 23827

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.31,pl.5,f.36.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

***Drepanella progressa* Kirk**

SYNTYPE YPM 26545

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.419,f.1a-1c.

SYNTYPE YPM 26546, 26819

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16,  
n.95,p.419.

Middle Ordovician, Trenton Limestone. Near  
"Reservoir Hill", Davidson Co., Tennessee, USA.  
Collector: Schuchert, C.

***Drepanella progressa reticulata* Kirk**

HOLOTYPE YPM 26820

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16,  
n.95,p.421,f.2.

Middle Ordovician, Trenton Limestone. Near  
"Reservoir Hill", Davidson Co., Tennessee, USA.  
Collector: Schuchert, C.

***Echinocaris clarkii* Beecher**

HOLOTYPE YPM 24351

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.443,pl.18,f.1,9.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

Early Mississippian, Waverly Grp. Shale of  
Waverly Grp, Warren, Warren Co., Pennsylvania,  
USA. Collector: Beecher, C.E.

***Echinocaris punctata* (Hall)**

HYPOTYPE YPM 22408

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.6.

Middle Devonian, Hamilton Grp. Pratts Falls,  
Onondaga Co., New York, USA.

***Echinocaris randallii* Beecher**

HOLOTYPE YPM 24352

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.443,pl.18,f.8.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

HYPOTYPE YPM 24354, 29365

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.443.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

Early Mississippian, Waverly Grp. Shale of  
Waverly Grp, Warren, Warren Co., Pennsylvania,  
USA. Collector: Beecher, C.E.

***Echinocaris socialis* Beecher**

SYNTYPE YPM 9675

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.5.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.8.

SYNTYPE YPM 24337

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.1,12.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.2,9.

SYNTYPE YPM 24339

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.6.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.6.

SYNTYPE YPM 24340

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.7.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.5.

SYNTYPE YPM 24341

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.8.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.12.

SYNTYPE YPM 24342

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.11.

SYNTYPE YPM 30058†

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.10,pl.1,f.9.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.174,  
pl.30,f.11.

SYNTYPE YPM 30059†



Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.10,pl.1,f.10.

SYNTYPE YPM 30060

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.10,pl.1,f.2,12.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.174, pl.30,f.2,9.

SYNTYPE YPM 30061

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.10,pl.1,f.3,12.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.174, pl.30,f.4,9.

SYNTYPE YPM 30062

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.10,pl.1,f.4,12.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.174, pl.30,f.3,9.

Late Devonian, Chemung Grp, Chemung Fm. Shales at the base of the Chemung Grp as exposed at Warren, Warren Co., Pennsylvania, USA. Collector: Beecher, C.E.

HYPOTYPE YPM 9674

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.17,f.1.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 22411

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.18,f.2.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 24348

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.18,f.7.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 24349

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.18,f.4-6.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 24350

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.18,f.3.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 24353

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.441,pl.18,f.1.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

Late Devonian, Chemung Fm. Phyllocarid beds, about 50 ft above mean water level of the Alleghany River, Warren, Warren Co., Pennsylvania, USA. Collector: Beecher, C.E.

†A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

### *Elymocaris siliqua* Beecher

SYNTYPE YPM 22441

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.13,pl.2,f.2.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.182, pl.31,f.6.

SYNTYPE YPM 22443

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.13,pl.2,f.1.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.182, pl.31,f.5.

Late Devonian, Chemung Grp, Chemung Fm. Lower arenaceous and micaceous shales of the Chemung Grp as exposed at Warren, Warren Co., Pennsylvania, USA. Collector: Beecher, C.E.

HYPOTYPE YPM 22410

Beecher, C.E. 1902. Quart. J. Geol. Soc. v.58,p.447,pl.19,f.8.

Rolfe, W.D.I. 1962a. Breviora (Harvard Univ.: Mus. Comp. Zool.). n.151,p.6.

Hannibal, J.T. and R.M. Feldmann. 1987. Kirtlandia. n.42,p.28.

HYPOTYPE YPM 22442

Beecher, C.E. 1902. *Quart. Jr. Geol. Soc.* v.58,p.447,pl.19,f.7.

Hannibal, J.T. and R.M. Feldmann. 1987. *Kirtlandia*. n.42,p.28.

Late Devonian, Chemung Fm. Phyllocarid beds, about 50 ft above mean water level of the Alleghany River, Warren, Warren Co., Pennsylvania, USA. Collector: Beecher, C.E.

***Estheriella reumauxi* Pruvost**

SYNTYPE? YPM 35042

Pruvost, Pierre. 1911. *Ann. Soc. Geol. du Nord*. v.40,p.61.†

Early Pennsylvanian, Westphalian, *Linopteris obliqua* Zone. Upper Westphalian, roof of Arago seam, Lievin Colliery, France.

† YPM 35042 is marked as a "Cotype" on a specimen label. It is unclear from Pruvost (1911) and Pruvost's correspondence if these specimens are syntypes.

***Estheriella simoni* Pruvost**

SYNTYPE?† YPM 35043- 35045††

Pruvost, Pierre. 1911. *Ann. Soc. Geol. du Nord*. v.40,p.64.†

Early Pennsylvanian, Westphalian, *Linopteris obliqua* Zone. Upper Westphalian, roof of Beaumont Seam, Lens Colliery, France.

† YPM 35043, 35044 and 35045 are marked as "Cotype" on the original specimen label. It is unclear from Pruvost (1911) and Pruvost's correspondence if these specimens are syntypes.

††YPM 35043, 35044 and 35045 refer to three slabs with 8, 10 and 15 specimens on the surface, respectively.

***Eurychilina latimarginata* (Raymond)**  
see *Primitia latimarginata* Raymond

***Garniella concentrica* Berdan**

PARATYPE YPM 23820

Berdan, J.M. 1972. *U.S. Geol. Surv. Prof. Pap.* n.730,p.22,pl.4,f.9.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

PARATYPE YPM 23821

Berdan, J.M. 1972. *U.S. Geol. Surv. Prof. Pap.* n.730,p.22,pl.4,f.10.

Late Silurian, Cobleskill Dolostone Jerusalem Hill, near Litchfield. Herkimer Co., New York, USA. Collector: Beecher, C.E.

***Hamhariella warthonini* Berdan**

PARATYPE YPM 23819

Berdan, J.M. 1972. *U.S. Geol. Surv. Prof. Pap.* n.730,p.24,pl.4,f.6.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

***Hemsiella* sp.**

HYPOTYPE YPM 25054, 31222

Branisa, Leonard, G.A Chamot, W.B.N. Berry and A.J. Boucot. 1972. *Spec. Pap. Geol. Soc. Am.* n.133,p.25.

Silurian, Cordillera Real Fm. San Rogue mine, SW slope of Santa Vela Cruz, Canton Ichocu, Inquisivi, Bolivia.

***Hoploparia gabbii?* Pilsbry**

HYPOTYPE YPM 17903

Roberts, H.B. 1962. *Bull. New Jersey Bur. Geol. Topo.* n.61,pt.2,p.166.

Late Cretaceous, Monmouth Grp, Navesink Fm. Bluff E of Atlantic Highlands, Monmouth Co., New Jersey, USA.

***Hoploparia* sp.**

HYPOTYPE YPM 17905

Roberts, H.B. 1962. *Bull. New Jersey Bur. Geol. Topo.* n.61,pt.2,p.168,pl.82,f. 5,6.

Paleocene, Rancocas Grp. Hornerstown, Monmouth Co., New Jersey, USA.

HYPOTYPE YPM 17909

Roberts, H.B. 1962. *Bull. New Jersey Bur. Geol. Topo.* n.61,pt.2,p.168.†

Paleocene, Hornerstown Fm. Cream Ridge Marl Company, Hornerstown, Monmouth Co., New Jersey, USA.

†A private number, 442, was used to incorrectly as the YPM catalog number.

***Isochilina saffordi* Ulrich**

HYPOTYPE YPM 26825

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16,  
n.95,p.418,f.7.

Middle Ordovician, Trenton Limestone. Near  
"Reservoir Hill," Davidson Co., Tennessee, USA.  
Collector: Schuchert, C.

***Isochilina vaurealensis* Twenhofel**

HOLOTYPE YPM 20505

Twenhofel, W.H. 1928. Mem. Can. Geol.  
Surv. n.154,p.341,pl.60,f.6.

Ordovician, Vaureal Fm, Vaureal zone 6. Zone 10 of  
Vaureal River section, Anticosti Island, Quebec,  
Canada. Collector: Twenhofel, W.H., 1919.

PARATYPE YPM 20506

Twenhofel, W.H. 1928. Mem. Can. Geol.  
Surv. n.154,p.341.

Ordovician, Vaureal Fm, Vaureal zone 6. Zone 10 of  
Vaureal River section, Anticosti Island, Quebec,  
Canada. Collector: Twenhofel, W.H., 1919.

***Janusella subtumida* (Ulrich)**

HYPOTYPE YPM 20841

Berdan, J.M. 1960. J. Paleont. v.34,n.3,  
p.473,pl.66,f.9.

HYPOTYPE YPM 20842

Berdan, J.M. 1960. J. Paleont. v.34,n.3,  
p.473,pl.66,f.10.

Early Devonian, Helderberg Grp. lower Helderberg,  
Indian Ladder, Thatcher State Park, Albany Co., New  
York, USA. Collector: Beecher, C.E.

see *Beecherella subtumida* Ulrich.

***Kloedenella* sp.**

HYPOTYPE YPM 23842

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.37,pl.6,f.43.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and  
just below it, 0.25 mi E of post office, Schoharie,  
Schoharie Co., New York, USA. Collector: Logie,  
R.M., 09/07/1932.

***Kloedeniopsis barretti* (Weller)**

HYPOTYPE YPM 23815

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.27,pl.3,f.14.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and  
just below it, 0.25 mi E of post office, Schoharie,  
Schoharie Co., New York, USA. Collector: Logie,  
R.M., 09/07/1932.

PARATYPE YPM 23813

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.26,pl.3,f.2.

Late Silurian, Cobleskill Dolostone exposed in hillside  
about 25 ft above road, 0.35 mi S30W of the 4  
corners in Shutter Corners. Schoharie Co., New York,  
USA. Collector: Logie, R.M., 09/09/1932.

***Kloedeniopsis hartnageli* Berdan**

PARATYPE YPM 23814

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.26.

Late Silurian, Cobleskill Dolostone. Bed B, road  
cut on side road, 0.1 mi W of Rt. 315, 0.5 mi SSE  
of Forge Hollow, Oneida Co., New York, USA.  
Collector: Logie, R.M., 08/09/1932.

***Leiocyamus punctatus* Berdan**

HOLOTYPE YPM 23840

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.29,pl.6,f.39.

PARATYPE YPM 23837

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.29,pl.6,f.34.

PARATYPE YPM 23838

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.29,pl.6,f.35.

PARATYPE YPM 23839

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.29,pl.6,f.37.

PARATYPE YPM 23841

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.29,pl.6,f.40.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and  
just below it, 0.25 mi E of post office, Schoharie,  
Schoharie Co., New York, USA. Collector: Logie,  
R.M., 09/07/1932.

***Leiocyamus* sp. A**

HYPOTYPE YPM 23843

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.30,pl.6,f.47,48.

Late Silurian, Cobleskill Dolostone exposed in hillside about 25 ft above road, .35 mi S30W of the 4 corners in Shutter Corner, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/09/1932.

***Leperditia ampla* (Ulrich)**

HYPOTYPE YPM 26542, 26543

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410.

HYPOTYPE YPM 26822

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4a.

HYPOTYPE YPM 26826

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4b.

HYPOTYPE YPM 26827

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4c.

HYPOTYPE YPM 26830

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4d.

HYPOTYPE YPM 26831

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4e.

HYPOTYPE YPM 26832

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4h.

Middle Ordovician, Trenton Limestone. Near "Reservoir Hill", Davidson Co., Tennessee, USA. Collector: Schuchert, C.

HYPOTYPE YPM 34998†

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4f.

HYPOTYPE YPM 34999†

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.410,f.4g.

Middle Ordovician, Trenton Limestone. Near "Reservoir Hill", Davidson Co., Tennessee, USA. Collector: Schuchert, C.

†A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

***Leperditia ampla nashvillensis* Kirk**

HOLOTYPE YPM 26823

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.416,f.5a-5c.

Middle Ordovician, Trenton Limestone. Near "Reservoir Hill", Davidson Co., Tennessee, USA. Collector: Schuchert, C.

***Leperditia catheyensis* Kirk**

SYNTYPE YPM 26544

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.416.

SYNTYPE YPM 26824

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.416,f.6b.

SYNTYPE YPM 26828

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.416,f.6d.

SYNTYPE YPM 26829

Kirk, S.R. 1928. Am. J. Sci. ser.5,v.16, n.95,p.416,f.6e.

Middle Ordovician, Trenton Limestone. Near "Reservoir Hill", Davidson Co., Tennessee, USA. Collector: Schuchert, C.

***Leperditia* cf. *L. selwyni* (Billings)**

HYPOTYPE YPM 26943

Shrock, R.R. and W.H. Twenhofel. 1939. J. Paleont. v.13,n.3,p.266,pl.30,f.5.

HYPOTYPE YPM 26944

Shrock, R.R. and W.H. Twenhofel. 1939. J. Paleont. v.13,n.3,p.266.

Silurian, Pike Arm Fm. black argillite on NW shore of Burnt Island, Goldson Arm, New World Island, Newfoundland, Canada. Collector: Twenhofel, W.H.

***Leperditia limatula* Raymond**

HOLOTYPE YPM 26991

Raymond, P.E. 1905. Am. J. Sci. ser.4,v.20, n.119,p.380.

Raymond, P.E. 1911. Ann. Carnegie Mus.  
v.7,n.2,p.253,tf.25.

Middle Ordovician, Chazy Grp. Chazy. Clinton  
Co., New York, USA.

HYPOTYPE YPM 26992

Raymond, P.E. 1905. Am. J. Sci. ser.4,v.20,  
n.119,p.380.

Raymond, P.E. 1911. Ann. Carnegie Mus.  
v.7,n.2,p.253.

Middle Ordovician, Trenton Limestone. Near  
"Reservoir Hill", Davidson Co., Tennessee, USA.  
Collector: Schuchert, C.

HYPOTYPE YPM 26993, 26994

Raymond, P.E. 1905. Am. J. Sci. ser.4,v.20,  
n.119,p.380.

Raymond, P.E. 1911. Ann. Carnegie Mus.  
v.7,n.2,p.253.

Middle Ordovician, Chazy Grp. Chazy. Clinton  
Co., New York, USA.

***Leperditia minganensis* Twenhofel**

HOLOTYPE YPM 15295

Twenhofel, W.H. 1938. Spec. Pap. Geol.  
Soc. Am. n.11,p.67,pl.10,f.9.

Ordovician, Mingan Fm. Deep Bay on E side of  
Large Island, Mingan Islands. Quebec, Canada.  
Collector: Twenhofel, W.H., 1908.

***Meyeria mexicana* Rathbun**

HOLOTYPE YPM 26883

Rathbun, M.J. 1935. Spec. Pap. Geol. Soc.  
Am. n.2,p.17,pl.26,f.1-4.

Cretaceous, Gargasian Fm. Lower part of thick  
section of Cuchillo shales of Burrow, Dufrenoya  
zone, Abuja Colorada Canyon on N side of Cerro  
Chino, 26 km NW of Cuchillo Parado. Chihuahua,  
Mexico. Collector: King, R.E. and Adkins, W.S.

***Migmatella martinsoni* Berdan**

PARATYPE YPM 23822

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.23,pl.4,f.13.

PARATYPE YPM 23823

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.23,pl.4,f.14.

PARATYPE YPM 23824

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.23.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and  
just below it, 0.25 mi E of post office, Schoharie,  
Schoharie Co., New York, USA. Collector: Logie,  
R.M., 09/07/1932.

***Necrocarcinus rathbunae* Roberts**

HYPOTYPE YPM 20025

Roberts, H.B. 1962. Bull. New Jersey Bur.  
Geol. Topo. n.61,pt.2,p.181,pl.85,f.12.

Late Cretaceous, Woodbury Fm. Lorillard, New  
Jersey, USA.

***Nunculina striatopuncta* Berdan**

HOLOTYPE YPM 23830

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.41,pl.6,f.12.

PARATYPE YPM 23829

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.41,pl.6,f.11.

PARATYPE YPM 23831

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.41,pl.6,f.13.

PARATYPE YPM 31124

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.41,tf.9A.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and just  
below it, 0.25 mi E of post office, Schoharie,  
Schoharie Co., New York, USA. Collector: Logie,  
R.M., 09/07/1932.

***Palaeocaris typus* Meek and Worthen**

HYPOTYPE YPM 18823, 18850, 18855,  
18858, 18917, 19705, 19715, 19736,  
19756, 19766, 19767, 19779, 19795<sup>†</sup>,  
19858, 19917

Brooks, H.K. 1962. Bull. Am. Paleont. v.44,  
n.202,p.240.

HYPOTYPE YPM 19729

Brooks, H.K. 1962. Bull. Am. Paleont. v.44,  
n.202,p.240,pl.64.f.4.

HYPOTYPE YPM 19731

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.63,f.1.

HYPOTYPE YPM 19750

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.60,f.3.

HYPOTYPE YPM 19755

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.60,f.1,pl.62,f.4.

HYPOTYPE YPM 19765<sup>†</sup>

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.63,f.4.

HYPOTYPE YPM 19775

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.61,f.3.

HYPOTYPE YPM 19781

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.62,f.5.

HYPOTYPE YPM 19783

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.62,f.3,pl.64,f.3.

HYPOTYPE YPM 19786

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.61,f.2.

HYPOTYPE YPM 19812

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.61,f.4.

HYPOTYPE YPM 19823

Brooks, H.K. 1962. Bull. Am. Paleont. v.44, n.202,p.240,pl.64,f.5.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Shale Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

<sup>†</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

***Palaeolimnadia* sp.**

HYPOTYPE YPM 16834<sup>†</sup>

Olsen, P.E., C.L. Remington, Bruce Cornet

and K.S. Thompson. 1978. Science. v.201,p.730,f4B.

Late Triassic, Dan River Grp, Cow Branch Fm. Insect layer, unit b, cycle CB1-2, quarry CB1-2-D, 1000 ft above base of upper member of Cow Branch, main quarry of Solite Corporation, 0.5 mi N of Fitzgerald, and 0.5 mi WSW of Leaksville Junction, VA, Rockingham Co., North Carolina, USA. Collector: Olsen, P.E. and Salvia, Robert, 07/1975.

<sup>†</sup>YPM 16834 refers to a slab with ten specimens present on the surface.

***Peachella strongi* (Brooks)**

see *Anthracophausia strongi* Brooks

***Primitia latimarginata* Raymond**

SYNTYPE YPM 26990

Raymond, P.E. 1905. Am. J. Sci. ser.4,v.20,n.119,p.380.

=*Eurychilina latimarginata* (Raymond). Lectotype? Raymond, P.E. 1911. Ann. Carnegie Mus. v.7,n.2,p.255,tf.26.<sup>†</sup>

SYNTYPE YPM 35368

Raymond, P.E. 1905. Am. J. Sci. ser.4,v.20, n.119,p.380.

=*Eurychilina latimarginata* (Raymond). Paralectotype? Raymond, P.E. 1911. Ann. Carnegie Mus. v.7,n.2,p.255.<sup>†</sup>

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

<sup>†</sup>YPM 26990 is labeled in Raymond's handwriting and referred to as the "holotype" of *Eurychilina latimarginata* Raymond (Raymond, 1911: tf.26), although it was neither specifically mentioned or figured in the original description (Raymond, 1905).

***Protocallianassa mortoni* (Pilsbry)**

HYPOTYPE YPM 17907

Roberts, H.B. 1962. Bull. New Jersey Bur. Geol. Topo. n.61,pt.2,p.171,pl.83,f. 4,5.<sup>†</sup>

HYPOTYPE YPM 17908

Roberts, H.B. 1962. Bull. New Jersey Bur. Geol. Topo. n.61,pt.2,p.169,pl.83,f.6.<sup>†</sup>

Cretaceous, Red Bank Fm. New Jersey, USA. Collector: Redfield, J.H.

†A YPM accession number, 126, was used incorrectly as a YPM specimen number on p.171.

***Raninella* sp.**

HYPOTYPE YPM 17904A†, 17904B, 17904C

Roberts, H.B. 1962. Bull. New Jersey Bur. Geol. Topo. n.61,pt.2,p.188.

Late Cretaceous, Woodbury Fm. Lorillard, New Jersey, USA.

†A thorough search of the collections by the curatorial staff in the 1960s and 1980s could not locate this specimen. It is believed to be permanently lost.

**Raninidae gen. et sp. indet.**

HYPOTYPE YPM 17910

Roberts, H.B. 1956. Bull. Wagner Free Inst. Sci. v.31,n.2,p.8,tf.3.

Paleocene, Rancocas Grp, Vincentown Fm. 7 ft below top of bluff, rear of Stokes Cannery on Rancocas Creek, Vincetown, Burlington Co., New Jersey, USA. Collector: Miller, H.W., 09/24/1954.

***Rhinocaris columbina* Clarke**

HYPOTYPE YPM 24343

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.195, pl.31,f.21.

Middle Devonian, Hamilton Grp. Eighteen Mile Creek, Erie Co., New York, USA.

***Tetracarcinus subquadratus* (Weller)**

HYPOTYPE YPM 17906

Roberts, H.B. 1962. Bull. New Jersey Bur. Geol. Topo. n.61,pt.2,p.184,,pl.87,f.3.

Late Cretaceous, Woodbury Fm. Lorillard, New Jersey, USA.

†A YPM accession number, 5748a, was used incorrectly as a YPM specimen number in the explanation for pl.87,f.3.

***Thlipsurella parva* Berdan**

HYPOTYPE YPM 31125

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.39.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie,

Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

***Thlipsuropsis inaequalis* (Ulrich and Bassler)**

HYPOTYPE YPM 23828

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.38,pl.6,f.4,5.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

***Tikiopsis denticulata* Berdan**

PARATYPE YPM 23816

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.27,pl.3,f.24.

PARATYPE YPM 23817

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.27,pl.3,f.28.

Late Silurian, Cobleskill Dolostone. Quarry at Cromer's Place, on the N edge of the road and just below it, 0.25 mi E of post office, Schoharie, Schoharie Co., New York, USA. Collector: Logie, R.M., 09/07/1932.

PARATYPE YPM 23818

Berdan, J.M. 1972. U.S. Geol. Surv. Prof. Pap. n.730,p.27,pl.3,f.27.

Late Silurian, Cobleskill Dolostone exposed in hillside about 25 ft above road, .35 mi S30W of the 4 corners in Shutter Corners. Schoharie Co., New York, USA. Collector: Logie, R.M., 09/09/1932.

***Tropidocaris alternata* Beecher**

SYNTYPE YPM 24345

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.19,pl.2,f.8.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.186, pl.31,f.15.

SYNTYPE YPM 24346

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv. Rpt. v.PPP,p.19,pl.2,f.7.

Hall, James and J.M. Clarke. 1888. Paleontology of New York. v.7,p.186, pl.31,f.14.

HYPOTYPE YPM 22437

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.447,pl.19,f.6.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

Early Mississippian, Waverly Grp. Sandstone of  
Waverly Grp, Warren, Warren Co., Pennsylvania,  
USA. Collector: Beecher, C.E.

***Tropidocaris bicarinata* Beecher**

SYNTYPE YPM 22438

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.16,pl.2,f.5.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.184,  
pl.31,f.12.

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.445,pl.19,f.3.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

SYNTYPE YPM 22435

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.16,pl.2,f.4.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.184,  
pl.31,f.11.

SYNTYPE YPM 22436

Beecher, C.E. 1884. Penn. 2nd. Geol. Surv.  
Rpt. v.PPP,p.16,pl.2,f.3.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York. v.7,p.184,  
pl.31,f.7,9.

Late Devonian, Chemung Grp, Chemung Fm.  
Shales at the base of the Chemung Grp as  
exposed at Warren, Warren Co., Pennsylvania,  
USA. Collector: Beecher, C.E.

HYPOTYPE YPM 22439

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.445,pl.19,f.4.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28

HYPOTYPE YPM 22440

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.445,pl.19,f.5.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

HYPOTYPE YPM 29364<sup>†</sup>

Beecher, C.E. 1902. Quart. J. Geol. Soc.  
v.58,p.445,pl.19,f.1,2.

Hannibal, J.T. and R.M. Feldmann. 1987.  
Kirtlandia. n.42,p.28.

Late Devonian, Chemung Fm. Phyllocarid beds,  
about 50 ft above mean water level of the  
Alleghany River, Warren, Warren Co., Pennsylvan-  
ia, USA. Collector: Beecher, C.E.

<sup>†</sup>A thorough search of the collections by the  
curatorial staff in the 1960s and 1980s could not  
locate this specimen. It is believed to be  
permanently lost.

***Tropidocaris interrupta* Beecher**

SYNTYPE YPM 24344

Beecher, C.E. 1884. Penn. 2nd. Geol.  
Surv. Rpt. v.PPP,p.16,pl.2,f.6.

Hall, James and J.M. Clarke. 1888.  
Paleontology of New York  
v.7,p.185,pl.31,f.13.

Late Devonian, Chemung Grp, Chemung Fm.  
Shales at the base of the Chemung Grp as  
exposed at Warren, Warren Co., Pennsylvania,  
USA. Collector: Beecher, C.E.

***Tuzoia dunbari* Resser**

see *Tuzoia? dunbari* Resser

***Tuzoia? dunbari* Resser**

HOLOTYPE YPM 10046

Resser, C.E. 1929. Bull. U.S. Nat. Mus.  
v.76,art.9,p.11,pl.7,f.1.

=*Tuzoia dunbari*. Resser, C.E. and B.F.  
Howell. 1938. Bull. Geol. Soc. Am. v.49,  
p.231,pl.12,f.1.

Early Cambrian, Kinzers Fm. Noah L. Getz farm,  
1 mi N of Rohrerstown, Lancaster Co., Pennsylvan-  
ia, USA. Collector: Getz, N.L.

***Tuzoia getzi* Resser**

HOLOTYPE YPM 10044

Resser, C.E. 1929. Bull. U.S. Nat. Mus.  
v.76,art.9,p.10,pl.7,f.3.

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.231,pl.13,f.9.



HYPOTYPE YPM 10045

Resser, C.E. 1929. Bull. U.S. Nat. Mus.  
v.76,art.9,p.10.

Early Cambrian, Kinzers Fm. Noah L. Getz farm,  
1 mi N of Rohrerstown, Lancaster Co., Pennsyl-  
vania, USA. Collector: Getz, N.L.

***Tuzoia nitida* Resser and Howell**

SYNTYPE YPM 14369

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.231,pl.10,f.5.

SYNTYPE YPM 14381

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.231,pl.12,f.5.

SYNTYPE YPM 14393

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.231.<sup>†</sup>

SYNTYPE YPM 14398

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.231.<sup>††</sup>

Early Cambrian, Kinzers Fm. Noah L. Getz farm,  
1 mi N of Rohrerstown, Lancaster Co., Pennsyl-  
vania, USA. Collector: Getz, N.L.

<sup>†</sup>This specimen was incorrectly referred to as  
14353 on p.231.

<sup>††</sup>This specimen was incorrectly referred to as  
14389 on p.231.

**undet. Crustacea**

HYPOTYPE YPM 14380

Resser, C.E. and B.F. Howell. 1938. Bull.  
Geol. Soc. Am. v.49,p.233,pl.12,f.4.

Early Cambrian, Kinzers Fm. Noah L. Getz farm,  
1 mi N of Rohrerstown, Lancaster Co., Pennsyl-  
vania, USA. Collector: Getz, N.L.

**undet. Phyllocarida**

HYPOTYPE YPM 16836

Olsen, P.E., C.L. Remington, Bruce Cornet  
and K.S. Thompson. 1978. Science.  
v.201,p.730,f4A (top).

HYPOTYPE YPM 34618

Olsen, P.E., C.L. Remington, Bruce Cornet  
and K.S. Thompson. 1978. Science.  
v.201,p.730,f4A (bottom).

Late Triassic, Dan River Grp, Cow Branch Fm.  
float, unknown cycle of upper member of Cow  
Branch, abandoned quarry (CB1-A) .3 mi NW of  
main quarry of Solite Corporation in NC, .7 mi  
due W of Leaksville Junction, VA. Pittsylvania  
Co., Virginia. USA. Collector: Olsen, P.E. and  
Salvia, Robert, 07/1975.

**undet. Pleocyemata**

HYPOTYPE YPM 16832

Olsen, P.E. 1977. Carolina Geol. Soc.:  
Raleigh. 40th Ann. Meeting, f.181B.

HYPOTYPE YPM 30793

Olsen, P.E. 1977. Carolina Geol. Soc.:  
Raleigh. 40th Ann. Meeting, f.181A.

Late Triassic, Chatham Grp. 6-in crayfish bed 16 in  
above base of 3.5-ft-thick lacustrine beds, 47.5 ft  
above base of section in main quarry of Triangle Brick  
Company, W side of State Route 1630, Genlee,  
Durham Co., North Carolina, USA. Collector: Olsen,  
P.E. and Litt, Amy, 03/23/1977.

***Welleriopsis? pustulosa* Berdan**

PARATYPE YPM 23844

Berdan, J.M. 1972. U.S. Geol. Surv. Prof.  
Pap. n.730,p.28.

Late Silurian, Cobleskill Dolostone. Quarry at  
Cromer's Place, on the N edge of the road and  
just below it, 0.25 mi E of post office,  
Schoharie, Schoharie Co., New York, USA.  
Collector: Logie, R.M., 09/07/1932.

***Zanthopsis milleri* Roberts**

HOLOTYPE YPM 19583

Roberts, H.B. 1955. Bull. Wagner Free Inst.  
Sci. v.30,n.1,p.9,pl.1,f.1.

PARATYPE YPM 19584

Roberts, H.B. 1955. Bull. Wagner Free Inst.  
Sci. v.30,n.1,p.9,pl.1,f.2,3.

Eocene, Shark River Fm. Squankum. Monmouth  
Co., New Jersey, USA.

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